



Product designation				Voltage monitoring relays
Product type designation				PMV30
General characteristics				
Description				Minimum AC voltage, phase loss and incorrect phase sequence relay
Type of system				Three-phase without neutral
Power supply				
Auxiliary supply voltage U_s				Self powered
Operating voltage range				$0.7 \dots 1.2 U_e$
Rated frequency	Hz			50/60 $\pm 5\%$
Power consumption Max	VA			30
Power dissipation Max	W			2.5
Control circuit				
Rated voltage to control (U_e)	min	VAC	380	
	Max	VAC	575	
Voltage set-point ($\%U_e$)	min	%	80...95	
Tripping delay		s	0.1...20	
Resetting time		s	0.1...20 (0.5 at power up)	
Resetting hysteresis		%	3	
Instantaneous tripping for U_e				Voltage $< 70\% U_e$
Type of reset				Automatic
Repeat accuracy		%	± 0.1	
Tripping time for phase loss		ms	60	
Relay outputs				
Number of relays		Nr.	1	
Relay state				Normally energised De-energises at tripping
Contact arrangement				1 changeover SPDT
Rated operational voltage AC (IEC)	VAC			250
Maximum switching voltage	VAC			400
IEC Conventional free air thermal current I_{th}	A			8
UL/CSA and IEC/EN 60947-5-1 designation				B300
Electrical life (with rated load)	cycles			100000
Mechanical life	cycles			3000000
Functions				

Modular version	2U
Minimum AC voltage	Yes
Maximum AC voltage	No
Phase loss	Yes
Incorrect phase sequence	Yes
Asymmetry	No

Indications

Indication	1 green LED for power on and tripping and 1 red LED for tripping
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Connections

Terminals type	Screw
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Tightening torque for terminals	max Nm 0.8	max lbin 7
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Conductor cross section	AWG/Kcmil	min AWG 24	Max AWG 12
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IEC	min mm ² 0.2	Max mm ² 4
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Insulations

Rated insulation voltage Ui	V 600
Rated impulse withstand voltage Uimp	kV 6
Operating frequency withstand voltage	kV 4

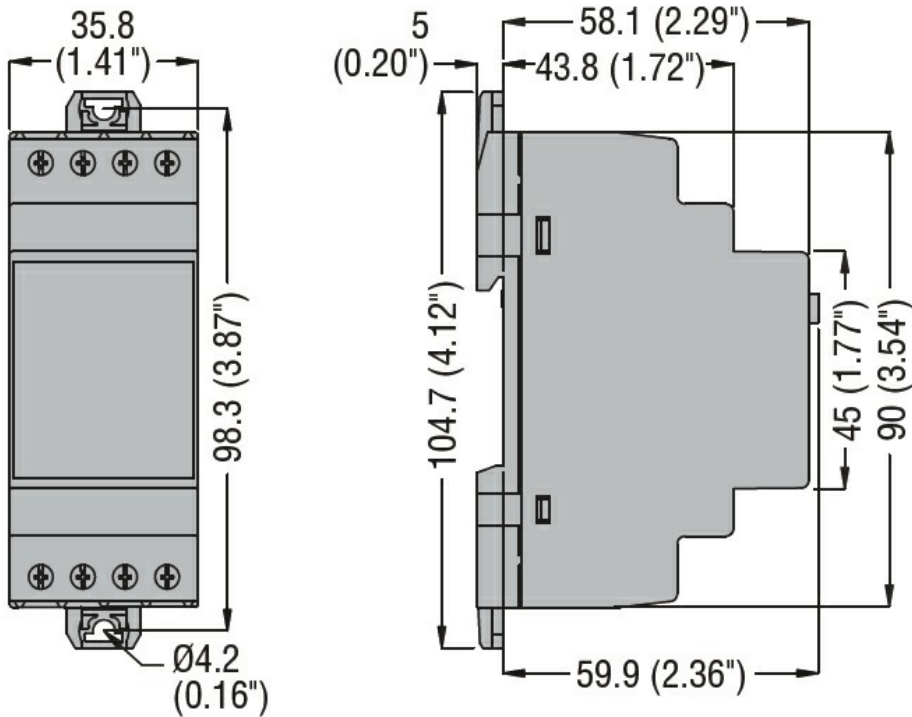
Ambient conditions

Temperature	Operating temperature	min °C -20	max °C +60
		min °C -30	max °C +80

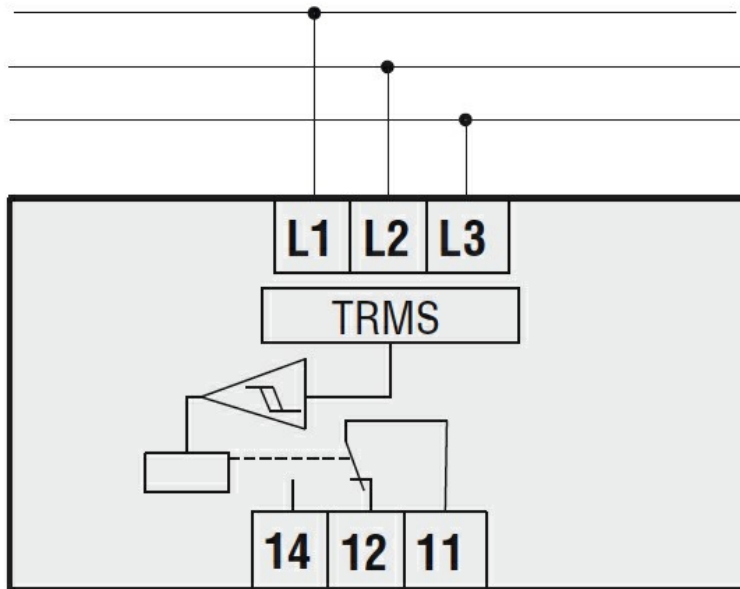
Housing

Execution (n° of modules)	2
Material	Self-extinguishing polyamide
Mounting	35mm DIN rail (IEC/EN 60715)
IEC degree of protection	IP40 on front; IP20 at terminals
Dimensions (W x H x D)	mm 35.8 x 104.7 x 64.9
Weight	g 130

Dimensions



Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 14

IEC/EN 60255-5

IEC/EN 61000-6-2

IEC/EN 61000-6-3

UL 508

Certificates

cULus

EAC

ETIM classification

ETIM 8.0

EC001438 -
Voltage
monitoring relay